

Title (en)  
ALK1 RECEPTOR AND LIGAND ANTAGONISTS AND USES THEREOF

Title (de)  
ALK1-REZEPTOR- UND LIGAND-ANTAGONISTEN UND IHRE VERWENDUNG

Title (fr)  
RÉCEPTEUR ALK1 ET ANTAGONISTES DE LIGANDS ET UTILISATIONS DE CEUX-CI

Publication  
**EP 2087001 B1 20161026 (EN)**

Application  
**EP 07861684 A 20071102**

Priority  
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• US 85659206 P 20061102

Abstract (en)  
[origin: WO2008057461A2] In certain aspects, the present disclosure relates to the insight that a polypeptide comprising a ligand-binding portion of the extracellular domain of activin-like kinase I (ALKI) polypeptide may be used to inhibit angiogenesis in vivo, particularly in mammals suffering angiogenesis-related disorders. The disclosure also identifies ligands for ALKI and demonstrates that such ligands have pro-angiogenic activity, and antibodies that inhibit receptor-ligand interaction.

IPC 8 full level  
**C07K 14/71** (2006.01)

CPC (source: EP KR US)  
**A61K 39/395** (2013.01 - KR); **A61K 39/39558** (2013.01 - US); **A61K 45/06** (2013.01 - US); **A61P 7/00** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 17/06** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 27/02** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 35/04** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07K 14/71** (2013.01 - EP KR US); **C07K 16/18** (2013.01 - KR US); **C07K 19/00** (2013.01 - KR); **C07K 2317/52** (2013.01 - EP US); **C07K 2319/30** (2013.01 - EP US)

Citation (examination)  
• SHARMA S ET AL: "465 DISCUSSION A Phase 1 dose escalating study of ACE-041, a novel inhibitor of ALK-1 mediated angiogenesis, in patients with advanced solid tumors", EUROPEAN JOURNAL OF CANCER. SUPPLEMENT, PERGAMON, OXFORD, GB, vol. 8, no. 7, 1 November 2010 (2010-11-01), pages 149 - 150, XP027498155, ISSN: 1359-6349, [retrieved on 20101101], DOI: 10.1016/S1359-6349(10)72172-8  
• CHRISTOPHER C RIDER ET AL: "Bone morphogenetic protein and growth differentiation factor cytokine families and their protein antagonists", BIOCHEMICAL JOURNAL, PORTLAND PRESS LTD, GB, vol. 429, no. Part 1, 1 July 2010 (2010-07-01), pages 1 - 12, XP002683438, ISSN: 0264-6021, Retrieved from the Internet <URL:http://www.biochemj.org/bj/429/bj4290001.htm> DOI: 10.1042/BJ20100305

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

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**US 2007023217 W 20071102**; AU 2007317926 A 20071102; BR PI0717964 A 20071102; CA 2668411 A 20071102; CN 200780044656 A 20071102; CN 202010267166 A 20071102; DK 07861684 T 20071102; EP 07861684 A 20071102; EP 16189344 A 20071102; ES 07861684 T 20071102; IL 19852209 A 20090503; IL 25303517 A 20170620; JP 2009535341 A 20071102; JP 2013142324 A 20130708; JP 2015089239 A 20150424; JP 2018071503 A 20180403; JP 2020108938 A 20200624; KR 20097011291 A 20071102; KR 20147033523 A 20071102; KR 20177001896 A 20071102; MX 2009004718 A 20071102; RU 2009120695 A 20071102; RU 2013134324 A 20130722; US 201313907798 A 20130531; US 201715686588 A 20170825; US 202117546983 A 20211209; US 98273807 A 20071102